

## **ACCOUNTING 12**

**BE610** Grade Level 12 Credits 4.000

*RECOMMENDATION*-This course should be taken by students considering a career in business, and is a required course for the Accounting Career Prep Program. Student workbooks used in class may be purchased. *COURSE CONTENT*-Accounting 12 enables students to use industry-standard software and systems to analyze and solve accounting problems and produce and present accounting reports for a small business. Topics covered include: Accounting cycle to Financial Statement, Depreciation, Bank Reconciliation Statements, Payroll and Inventory Applications, Accounting for a partnership, a corporation and financial analysis; Simply Accounting 6.0 software will be used.

*ASSIGNMENTS/ACTIVITIES*-Recording transactions-general and specialized journals and ledgers, preparing financial statements, keeping payroll records and using the computer for recording and statement preparation.

## **ACTIVE LIVING 12- PHYSICAL EDUCATION**

**PE600** Grade Level 12 Credits 4.000

*Building on the knowledge, skills, concepts and activities of PHE 10, Active 11/12 focuses on finding activities that students can incorporate into their daily lives and fostering an appreciation for living and active and healthy lifestyle. Students will participate in a variety of activities and games; have the opportunity for community and school based field trips as well as support and encourage others in living a balanced and healthy lifestyle.*

## **ANATOMY & PHYSIOLOGY 12- BIOLOGY**

**SC610** Grade Level 12 Credits 4.000

*COURSE CONTENT: Cell Biology: cell compounds and biological molecules, cell structure and function; Cell Processes and Applications: DNA replication, gene expression, cell transport, enzyme function and metabolism; Interdependence of organ systems: digestive, circulatory, respiratory, nervous, urinary, and reproductive systems. This course is evaluated through tests, assignments, and labs. As course content is demanding, students must be strong readers. A regular program of home study is essential to success in this course.*

## **ART STUDIO 12- ART FOUNDATIONS**

**AR600** Grade Level 12 Credits 4.000

*Only to be taken by course teacher approval. (May be taken in addition to AR500-Art Studio 11.)*

*This is a high-level course is for the serious art student who wants to develop an entrance portfolio in preparation for post-secondary studies. It is for self-motivated students who can work independently and in a self-directed manner on various art projects and assignments. This course will provide opportunities for students to expand their breadth of abilities, deepen their understanding of the art world and influences, while still developing their strengths. This course can only to be taken with permission from course teacher.*

## **AUTOMOTIVE TECHNOLOGY 12**

**IE640** Grade Level 12 Credits 4.000

*PREREQUISITES: IE540 - AUTOMOTIVE TECHNOLOGY 11 (Recommended) RECOMMENDATION: This course is for anyone wishing to go into the Automotive trade or do any serious maintenance/repair on a car. Any serious hobbyist will find the knowledge and experience important and challenging. This course may also be taken as a credit for the Career Preparation/Work Experience Program. COURSE CONTENT: Areas covered may include engine operation and construction, transmission operations, clutches and differential operations and assembly. We take a brief look at the autobody area. In addition, we will look into the car and how it affects society. ASSIGNMENTS/ACTIVITIES: 33%*

*Theory/67% Practical This course is project based and very student driven. Most of the shop time is unstructured providing students an opportunity to engage in work on a project that is meaningful to them. Example: Their own car, a family car, a friend's car, one of our shop projects (including our electric race vehicles). Some time may be spent on labs.*

## **AUTOMOTIVE TECHNOLOGY 12-**

**IE641** Grade Level 12 Credits 4.000

### *Autobody Repair*

*RECOMMENDED PREREQUISITES: IE540 - AUTOMOTIVE TECHNOLOGY 11 It is also recommended the student be enrolled in IE640-AUTOMOTIVE TECHNOLOGY 12. RECOMMENDATION: Would you like to know how to paint a car? How about airbrushing an exciting graphic like flames? This course is for any student wishing to augment knowledge of the automobile or pursue a career in the autobody paint/repair business. A serious hobbyist/restorer will also find it invaluable. May also be taken as a credit for the Career Preparation/Work Experience Program. COURSE CONTENT/ACTIVITIES: This course will cover the theory of autobody construction, damage analysis, repair and refinishing. Theory will be reinforced by practical demonstrations and time for the students to practice and engage in real world hands-on repairs that are project based and student driven. Some students may also get the opportunity to paint components of a car, motorcycle, or other individually engaging projects.*

## **CALCULUS 12**

**MA602A** Grade Level 12 Credits 4.000

*COURSE CONTENT-This course is designed to prepare students for post-secondary courses in Calculus. At the end of the course, students will have the opportunity to write the AP Calculus AB Calculus Exam. This exam may provide students credit for the first semester of Calculus (Differential Calculus) at North American post-secondary institutions. A full description of this exam can be found at:  
[http://www.apcentral.collegebound.com/apc/public/courses/teachers\\_corner/2178.html](http://www.apcentral.collegebound.com/apc/public/courses/teachers_corner/2178.html).  
The topics to be covered include: Limits, Definition of Derivative, Derivative Rules, Graphing Functions, Extreme Value Problems and Antidrivivatives.*

## **CAREER LIFE CONNECTIONS 12 & CAPSTONE 12**

**CE600** Grade Level 12 Credits 4.000

*Career Life Connections & the culmination of a Capstone Project replaces Grad Trans in the new curriculum and is a graded graduation requirement starting 18/19. Content will continue to emphasize the three main themes of Personal Career-Life Development, Connections with Community, and Career Life Planning, with the Curricular competencies supporting these in a variety of ways. See the curriculum for details. Major outcomes are expected to include a 1) personal plan for post-graduation; 2) a career-life exploration of experiential learning (30 hours or more) which can include service learning, volunteerism, employment, fieldwork projects, entrepreneurship, and passion projects; 3) and to design, assemble, and present a Capstone project to an audience. This culminating project would demonstrate personal learning and achievement (in and out of school), growth in the core competencies, and a reflection on students' post-graduation plans.*

## **CHEMISTRY 12**

**SC620** Grade Level 12 Credits 4.000

*Chemistry 12 is a course in physical and inorganic chemistry with a quantitative emphasis exploring the following ideas: reaction kinetics, equilibrium, solubility, acids/bases and salts, and electrochemistry. Throughout the course, students will develop their problem-solving strategies, laboratory skills and their ability to communicate scientific information. An emphasis is put on real-life applications of chemistry and helping*

students connect their learning to the world around them. It is strongly recommended that students taking the course have achieved a minimum of 70% in Chemistry 11 and have established effective study and work habits. Assessments will be based on assignments, lab reports and tests. Chemistry 12 provides a solid foundation for students carrying on to post-secondary chemistry classes and programs.

## **CHORAL MUSIC 12- CHOIR**

**MU620** Grade Level 12 Credits 4.000

(after school)

This course is designed for all students interested in developing their singing voice. Previous choral experience is helpful, but not required. Students will learn choral singing skills and basic music theory. They will learn to sing in a variety of genres such as: jazz, pop, folk, classical, musical theatre, etc. Students will be evaluated in the areas of performance, participation and musical proficiency (technique, style, etc.) Because the choir is performance-oriented, students are given the opportunity to perform in school concerts as well as to travel both locally and abroad to enrich their choral experience. There is no prerequisite course. THIS COURSE WILL BE OFFERED AFTER SCHOOL 2 DAYS PER WEEK. STUDENTS SHOULD SELECT THIS COURSE IN ADDITION TO THEIR 8 COURSES.

## **COMPOSITION & PRODUCTION 12**

**MU631** Grade Level 12 Credits 4.000

Recording Studio

This is a course for students who have completed Composition and Production 11 and received a minimum 80% grade. Students must be at an advanced level on the guitar, piano, or as a vocalist. All students should be comfortable singing. This class will be taught as part of a normally scheduled guitar 12 class. Students must be able to work well independently and be very responsible. Course assignments will be developed through a student centered inquiry approach. Due to limited space in the recording studio, there will be a limit of 4 students per block. Instructor approval and/or auditions are required to take this course. A minimum 80% average in Composition and Production 11 is also recommended. Please discuss this course option with Mr. Dobrovolny before enrolling.

## **COMPUTER ANIMATION 12**

**DM625** Grade Level 12 Credits 4.000

OVERVIEW-Computer 3D Animation & CGI 12 is linked to the new 3D Digital Media program. Computer animation is a growth industry in BC. CGI skills with animation and modeling is a large part of that growth, with application to a diverse range of fields ranging from film and television production to computer game development and design. COURSE CONTENT-This course will provide students with the opportunity to develop a skill set that will enhance their transition to post-secondary and industrial animation opportunities. Course Synopsis: An advanced course in animation with an emphasis on character animation, mesh models, lighting, camera movement and more. The course will be project driven with an emphasis on using the principles of animation.

## **CREATIVE WRITING 12**

**EN620** Grade Level 12 Credits 4.000

Creative Writing is designed for senior students who have a flair and a passion for writing. Students will have opportunities to develop writing skills in a variety of genres, including memoir, poetry, short fiction, scripts and creative non-fiction. Students will also read and write in their journals daily. The focus of the course is on improving individual student's writing styles and increasing awareness of the publishing process and the broader writing community. The course will be critiqued through individual and collaborative workshops and the evaluation of writing

portfolios.

**CRIMINOLOGY 12** **SS660** Grade Level 12 Credits 4.000

*COURSE CONTENT-Criminology 12 is an introductory course on the study of crime, criminals and the penal system. The topics include: the causes of crime, biological, social and psychological theories of crime, the roles of police, the treatment of criminals and organized crime. ASSIGNMENTS/ACTIVITIES-Activities include court watching at the B.C. Supreme Court and various guest speakers. Assignments are designed to analyze current events, details of specific crimes and criminals and the application of legal defenses. Research, writing, critical thinking skills and the application of various theories are developed through a variety of assignments.*

**CULINARY ARTS 12- CAFETERIA TRAINING** **HE660** Grade Level 12 Credits 4.000

*Culinary Arts program focuses on professional food preparation. Students learn and develop skills for the culinary industry. Culinary Art students take pride in creating delicious, nutritious and attractive food items for the schools "Pacer's Bistro" as well as occasional banquets. The recipes, equipment and pace of the program are representative of a professional kitchen. Students progress through baking, sandwiches, salads, soups, sauces and hot foods, as well as customer service and sanitation using a hands-on approach. Theory and the BC FoodSafe Certification Course are also taught through short lectures in the classroom. In addition, learning is achieved through exciting and dynamic culinary field trips. Many scholarship opportunities and awards are available to outstanding Culinary Art students. Students also develop an awareness of the need for constant attention to safety and hygiene within public food service operations.*

**DIGITAL DESIGN MAKERSPACE 12** **DM630** Grade Level 12 Credits 4.000

*A Makerspace is a workspace where creative students come together to dream, invent, build and share their ideas. It is a combination of a computer lab, woodshop, laboratory, electronics shop and art studio. Students will have access to 3d printers, laser cutter, Arduino and Raspberry Pi kits, Lego Mindstorm robotics, flatbed printers, and cameras just to start. Students are encouraged to discover and follow their passions, invent new creations and solve real world problems with innovative thinking. IDS Course will give you a 2nd block of Makerspace.*

**DIRECTING & SCRIPT DEVELOPMENT 12** **TH640** Grade Level 12 Credits 4.000

*PREREQUISITE-Theatre Performance 11: Acting & enrollment in Theatre Performance 12: Acting. Admission to the course is based on the approval of the instructor.  
RECOMMENDATION-It is highly advisable that the student has taken a course in stagecraft or has done extensive extracurricular work. As well, the student should be able to work well independently. They must also be able to devote out-of-class time to their project work.  
COURSE CONTENT-A student learns to read and analyze scripts with the intention of production. This course requires the writing and directing of scenes and one act plays. The student learns the qualities of leadership and skills of cooperation with both staff and students. It is an excellent course in which to learn responsibility. This is an advanced theatre course.  
ASSIGNMENTS/ACTIVITIES-Will include reading and writing scripts for various media and directing scenes and projects.*

**DRAFTING & DESIGN 12:** **IE622** Grade Level 12 Credits 4.000

*Arch & Habitat Design*

*RECOMMENDATION-If relationship between form, function and structure interests you, welcome to Drafting & Design 12: Architecture & Habitat Design.*

*COURSE CONTENT-This course looks at architectural styles and cultural influences related to various architectural designs. Students evaluate role of climate and location, structural materials and systems and building technologies in various cultures and time periods. ACTIVITIES-Students will apply design sketching and rendering techniques in communicating design ideas. This will evolve through appropriate techniques, symbols and conventions to prepare a set of working drawings of their habitat design. Projects are completed as 2D & 3D representations with Camera Walkthrough as 3D CGI. Emphasis will be placed on the use of Computer Assisted Drafting & Design (CADD) with various graphic software programs, including 3D Blender.*

**DRAFTING 12**

**IE620** Grade Level 12 Credits 4.000

*No PreRequisite required - Drafting & Design 12 is a course that will interest students who wish to increase their knowledge of art skills with drawing and designing of manufactured products. Working with computers within a CADD (Computer Assisted Drafting & Design) in a 2D and 3D design world. ACAD, Blender, Slulptris, Sketchup and other software will be explored. COURSE CONTENT - This course will provide opportunity to investigate any techniques used to communicate graphically in industry. Modules include use of scales, linetypes, geometry, views, dimensioning, freehand sketching and rendering, perspective, sections and conventions. Model making may also be explored. Using 3D software - design and model an object on computer - then print the model on our 3D printer.*

**DRAMA 12**

**TH610** Grade Level 12 Credits 4.000

*Acting 12 is an advanced study of theatre and the dramatic arts. Students will explore ensemble, acting and performance through voice, movement, improvisation & characters. Students will learn acting, performance and directing techniques, creative and critical thinking skills to solve problems, learn to communicate their learning and express themselves. Assessment is based on in class participation and assignments, both scripted and non. In Acting 11/12 students will be challenged with large group plays, self direction in small scenes as well as individual monologues. Students must have a mature attitude, be willing to work in groups & individually as well as take risks to expand their skills and confidence as an actor. \*\*\* Please note that this course has a required evening performance, "One Act Plays", in which students must attend one technical/dress rehearsal and 2 evening performances.*

**ECONOMICS 12**

**BE670** Grade Level 12 Credits 4.000

*Ecomonics 12 fills the admission requirements for local universities such as SFU and UBC. Students will understand how an economy works from a macro and micro economic perspective. In addition to economic concepts, students will also be taught how to put together and conduct business presentations, formal business reports, and to think critically. Emphasis is placed on what to expect from both a university course structure and a career in business. Topics include: Government policies and price controls, Supply and Demand, Economic Indicators, The Canadian and Global economy, Financial Securities and the Stock Market, The Real Estate Market, Incentives and Human Behaviour and Current Business news and trends.*

**EF LIT STUDIES & SPOKEN LANGUAGES 12**

**EF600** Grade Level 12 Credits 4.000

*EF12 is one of the three courses available for students to satisfy the grade 12 English Language Arts graduation program requirements. Students will study authentic First*

Peoples' texts in a variety of traditions with a strong emphasis on the oral pedagogy of First Peoples culture and First Peoples' world views. Students will focus on the central themes of Identity and the Significance of Colonization. This course is open to all students who have completed the prerequisite. The structure of the course lends itself to activities that stress cooperative learning and creative thinking. Assignments and activities will include oral and written projects and assessments related to literature topics covered.

**ENGINE & DRIVE TRAIN 12** **IE642** Grade Level 12 Credits 4.000

*PREREQUISITE*-Automotive Technology 11. It is also recommended that the student be enrolled in Automotive Technology 12. *RECOMMENDATION*: This course is for the serious student wanting to either tackle a high level project like a motor/transmission/differential rebuild or looking to get into the trade, pursuing a career in and becoming an Automotive Service Technician. If the student is planning on a high level project, extra shop time is strongly recommended (taking more than one block). This course can also be taken as a credit for the Career Preparation/Work Experience Program. *COURSE CONTENT*: This course will run into greater detail on operations of the engine and its drivetrain. This will give students a much more in depth view of various engine types. Special areas such as pollution control and various testing equipment will also be covered. *ASSIGNMENTS/ACTIVITIES*: There are no major assignments in this course, although some labs focusing on an active project may be introduced at the discretion of the instructor.

**ENGINEERING 12** **IE600** Grade Level 12 Credits 4.000

Engineering 12 is a high level continuation of the skills and knowledge gained in the Technology Education 9 and 10 courses. This course is for students looking to moving into the field of Engineering upon graduation of high school. The course touches on the STEM approach and applies it to a hands on area, utilizing every Technology facility in the school, and exposing the students to a wide range of systems, including hydraulics, electronics, manufacturing, and programming. Such equipment included is our 3D printers, 3D CNC router, CNC Metal Mill, laser and vinyl cutters! Projects that students may be involved in are designing and building a miniature (in some cases full size) fully functional arcade machine, rocketry, and ducted fan based flying vehicles. Items integrated to these projects may include working with Raspberry Pi mini computers and applying a wide variety of different sensors using and programming Arduinos. Please visit [dsstech.ca](http://dsstech.ca)!

**ENGLISH STUDIES 12** **EN600** Grade Level 12 Credits 4.000

Speaking, listening, reading, writing and critical thinking skills continue to be the foundational pillars of this course; with the New Curriculum, First Peoples' literature and issues will also be studied. Students will read, view and listen to, and respond in writing and orally to, short fiction, novels, poetry, essays and drama. Students will also complete an Independent Inquiry Project based upon a foundational text (of their choosing) and one of the five options outlined in the New Curriculum.

**ENTREPRENEURSHIP 12** **BE620** Grade Level 12 Credits 4.000

*RECOMMENDATION*-This course is recommended for anyone interested in learning about how business works. It offers a wide range of business topics and gives students the opportunity to develop skills through the creation of two real businesses. Depending on the success of these businesses, students will be able to earn money during the course. *COURSE CONTENT*-Students learn the theories of business development and operation. While

these theories are being studied, practical business experiences will be planned, created and opened. Before Xmas students will engage in a corporate style business competition where teams are set up, products are developed and sold and profits are shared. For more information on this course, please see the Course Planning Guide. ASSIGNMENTS/ACTIVITIES-Students will be engaged in all three real business activities as well as numerous business planning assignments.

**FITNESS & CONDITIONING 12- STUDIO FIT** **PE620** Grade Level 12 Credits 4.000

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of recreational activities including: yoga, pilates, zumba, meditation and other types of physical activities. Some off-campus activities include: hot youga @ Oxygen Yoga Tsawwassen, the stairs @ Fred Gingell Park, Spin & Swim @ the Ladner Leisure Centre. Please note, this course spends approximately 40% of their time off-campus and students are required to arrange transportation to these activities. There is a \$60 fee to cover guest instructors and off-campus activities.

**FOOD STUDIES 12** **HE600** Grade Level 12 Credits 4.000

Food Studies 12 is a very hands on practical course where complex meal and recipe design opportunities are available. Baking and cooking practices are continued with a focus on learning functions of ingredients, as well as making multi course meals more nutritious. Pastas, meat and alternatives, vegetables, salads, as well as baked goods are a few of the units covered in this course. Future career options in food service and production are researched further as well as food safety. Course highlights will be holiday baking in the winter term as well as learning the technique of making ice cream cakes in the spring. No prerequisite required.

**FOUNDATIONS OF MATHEMATICS 12** **MA600** Grade Level 12 Credits 4.000

PREREQUISITE-Foundations of Mathematics 11 with a minimum C+ Grade or better. COURSE CONTENT- This is an elective academic course that expands on some of the topics studied in Foundations of Mathematics 11. Topics include financial applications, logical reasoning, probability, statistics, and relations and functions. This course is for students who do not need to study calculus in a post-secondary institution.

**FURNITURE & CARPENTRY 12** **IE612** Grade Level 12 Credits 4.000

PREREQUISITE: Carpentry & Joinery 11. Must be taken concurrently with Carpentry & Joinery 12 or with instructor's special permission. Required for Career Preparation Program for Carpentry. RECOMMENDATION: Recommended for students with interest in learning more about house construction. This course meets the Applied Skills requirement and better equips students for post-secondary education or an apprenticeship in construction. COURSE CONTENT: Follows and builds upon work done in Carpentry & Joinery 12. Emphasis is on house construction, allowing students more time to work on specialized areas of the construction of the major project. ASSIGNMENTS/ACTIVITIES: Students will continue working on the housing project or a major project to that effect. With involved processes in framing, stairs, windows and doors, the project comes together to a fully functional structure that will be erected on site.

**GRAPHICS PRODUCTION 12- YEARBOOK** **AR653** Grade Level 12 Credits 4.000

No other course offers the experience and the prestige of producing a book that will create memories for a lifetime. The DSS yearbook has an award winning tradition of creative and professional design. The production of the yearbook requires students from

many different disciplines: photography, graphic design and media arts; business education, desktop publishing, marketing and journalism. The yearbook is a lot of work, but it is also one of the most rewarding high school experiences.

**INSTRUMENTAL MUSIC 12- GUITAR**

**MU630** Grade Level 12 Credits 4.000

There are no prerequisites for Guitar 12. Students will be divided into 4 ability levels: Beginner, Novice, Intermediate, and Advanced. Students are graded on their improvement, effort, and participation in class activities. Guitars are provided for each student to use in class. Students will learn the basic elements of music as they relate to the guitar and learn a variety of songs from different genres. They will also explore the history and cultural roots of modern popular music.

**INSTRUMENTAL MUSIC 12- INTERMEDIATE BAND**

**MU600I** Grade Level 12 Credits 4.000

General Information: This is a course for Grade 12 students with minimum 1 year of recent band experience (or equivalent). The skills learned at the beginner level are expanded through playing more complex music, music theory, history and listening. Students are expected to practice at home for a minimum of one hour per week. Mandatory concerts are also part of the program. Students can arrange for rental or purchase of instrument through local music shop. (School will help facilitate this.) A limited number of instruments are available to borrow through the school on a needs basis.

**INSTRUMENTAL MUSIC 12- SENIOR BAND**

**MU600S** Grade Level 12 Credits 4.000

GENERAL INFORMATION-Students may provide their own instruments and miscellaneous equipment. Some instruments/equipment will be available through the school without fee on a needs basis. Students using school instruments will be limited in choice. Those who choose to have their own instrument may "rent to own" or purchase an instrument through retail music stores. The school will help facilitate this. This is a course for Grade 12 students who are at an advanced level. They must have had at least two years at the Intermediate level or have the director's permission to participate in this course. Instrumental Music 12: (Senior) provides a more challenging repertoire and greater emphasis on interpretation and musicianship. Students rehearse primarily during class time, but are expected to participate in weekly student-led rehearsals outside of class time, as well as in performances. Students are encouraged to participate in the annual spring field trip.

**LANGUAGES 12- FRENCH**

**LA600** Grade Level 12 Credits 4.000

This course is a continuation of French 11. Students will interact daily in French using the communicative approach. Through relevant themes, the four language skills of speaking, listening, reading and writing are taught. Students will learn that language and culture are interconnected and explore diverse forms of cultural expression to promote a greater understanding of their own cultural identity.

**LANGUAGES 12- GERMAN**

**LA610** Grade Level 12 Credits 4.000

PREREQUISITE-Satisfactory completion of German 11 (a standing of over 70% is recommended).  
COURSE CONTENT-The skills introduced in German 11 are further developed. The focus will be on more advanced speaking, listening, reading and writing skills.

**LANGUAGES 12- SPANISH**

**LA620** Grade Level 12 Credits 4.000

PREREQUISITE-Successful completion of Spanish 11 (a standing of over 70% is recommended)



*RECOMMENDATION*-Those interested in enhancing their reading, writing, listening comprehension and speaking skills in Spanish are encouraged to enroll. The program *Realidades 2* will be used and students will improve their Spanish through reading authentic materials. *COURSE CONTENT*-The expansion of grammar and the improvement of reading, authentic documents, viewing latin movies, and creating numerous dialogues to practice speaking skills.

## **LAW STUDIES 12**

**SS610** Grade Level 12 Credits 4.000

*COURSE CONTENT*-This course is an introduction to Canadian Law emphasizing criminal and personal injury law. *ASSIGNMENTS/ACTIVITIES*-Assignments include role playing group projects and mock trial presentations. Students are expected to incorporate class work with current legal issues.

## **LITERARY STUDIES 12**

**EN610A** Grade Level 12 Credits 4.000

### *ADVANCE PLACEMENT*

*Literary Studies* is a survey course of literary works from Beowulf to the 20th Century. The course studies the literary, historical and cultural development of Western Civilization as reflected in England's literary tradition. This course prepares students for the critical thinking, reading and writing skills they need to demonstrate at college or university.

This course runs after school, once a week, from September to January. It is an online course presented with the support of an English teacher, in conjunction with Delta Access.

## **MACHINING & WELDING 12**

**IE650** Grade Level 12 Credits 4.000

*PREREQUISITE:* None! *COURSE CONTENT:* Metal Fab and machining 12 teaches several processes for working with metals. In our well-equipped Metal Shop, we use processes like machining on the Lathes and Milling Machines, MGAW and Stick Welding, Brazing, Sand Casting, Sheet metal forming and light CNC (computerized) machining.

*ASSIGNMENTS/ACTIVITIES:* Students build several Skill Building projects throughout the year such as Cast Aluminum C-Clamp, Soft-Faced Hammer and Foot Stool. They progress to a Term 3 Project combining many processes in the shop. Students in their second year of Metal Work might be grouped for larger projects like Go Karts, Mini Bikes, Bicycle Trailers, etc. We encourage real-life applications for the processes taught such as shoe racks, lift kits, bike carriers, wine racks, grappling hooks, chin-up bars, and almost anything else you can imagine being made out of metal! We apply the processes learned in fun, useful and challenging real-life projects to last a lifetime.

## **MEDIA DESIGN 12**

**DM650** Grade Level 12 Credits 4.000

This course is for grade 12 students, or students who have completed DM550. DM12 is part of the Delta Digital Design (3D) program. It is a flexible learning environment that allows students to pursue their own interests: graphic design, film production, game design, web design, or even 3-D printing! For those who have completed DM550 plus/or DM560, this course gives students the freedom to further explore their areas of interest with more individualized projects and the opportunity to develop their portfolio. Students should be self-motivated and able to work independently.

## **MEDIA DESIGN 12 IDS**

**DM660** Grade Level 12 Credits 4.000

Create your own Digital Direction! See [www.3ddss.com](http://www.3ddss.com) Graphic Design-Phone Apps-Film &

*Audio Production-Game & Web Design*

*Media Design is a flexible learning environment that allows students to pursue their own interests: graphic design, film production, game design or web design. Students will work on projects such as magazine layouts, poster design, scripting, shooting and editing movies or building your own video games or phone apps; learn to use tools such as Photoshop, Illustrator, Premiere Pro and the Unity game engine. Students have access to great equipment including camcorders, digital cameras and drawing tablets. Students should be self-motivated and able to work independently. Experienced students will be able to work on independent projects.*

**PHOTOGRAPHY 12**

**AR651** Grade Level 12 Credits 4.000

*Photography is about allowing students to use a camera to express themselves visually as well as tell people's stories through images. Student will learn how to properly use a Digital SLR camera to take creative photos as well as document the year through photojournalism. Students will also learn about using tools such as Photoshop and Indesign to edit photos and create stunning magazine layouts. In addition, students will learn to navigate the analog world through various darkroom practices. Experienced students will be able to work on independent projects.*

**PHYSICAL GEOGRAPHY 12**

**SS650** Grade Level 12 Credits 4.000

*COURSE CONTENT-Geography 12 accommodates students that are on the path of Science or the Arts. Some university programs will accept Geo 12 as a science admission requirement. Geography 12 is the study of the physical, natural and human elements of the global environment. It is the study of earth science, vegetation and animal life, natural disasters, ecology and environmental studies, maps and air photo interpretation, resource management and case studies. A number of fieldtrips will be happening during the course including one to Whistler to observe the fantastic examples of volcanic and erosional action in our area.*

**PHYSICS 12**

**SC630** Grade Level 12 Credits 4.000

*Physics is recommended for all students who wish to pursue academic studies or career training in scientific, technical, or medical fields. Students will engage in an exploration of: Graphing, Measurement, Kinematics, Dynamics, Energy, Circuits, Waves, and Simple Machines. Students taking Physics should have a strong math background. Physics 11 students will advance their problem solving skills, measurement skills, laboratory skills, and familiarity with scientific conventions and procedures. Students progress is assessed using problem sets, lab work, quizzes and tests.*

**POLITICAL STUDIES 12**

**SS601** Grade Level 12 Credits 4.000

*COURSE CONTENT- The curriculum for the course will cover informed Citizenship (which includes government, roles of individuals in society, our rights and responsibilities, Canadian politics, Canadian law, international law and human rights). The course will also examine Civic Deliberation (including fundamental principles of democracy, decision making, ideologies, political parties and Canada's role in international issues). Finally, Political Studies will study Civic Action (where students take positions on issues, examine a range of processes of civic action to better understand how they operate in society and understand the various mechanisms for public involvement). Discussions and debate are encouraged in this course.*

## **PRE-CALCULUS 12**

**MA602** Grade Level 12 Credits 4.000

*PREREQUISITE*-Successful completion of Pre-Calculus Mathematics 11 with a recommended minimum C+ grade. A graphing calculator is required for this course.

*COURSE CONTENT*-This course is designed to prepare students for the study of Calculus. The topics covered include transformations, trigonometry, logarithms and exponents, combinatorics, and polynomial, radical and rational functions. This course will be offered both as a half-year semester course and a full-year linear course. Students who complete Pre-Calculus 12 prior to their Grade 12 year will be prepared for Advanced Placement Calculus beginning in September.

## **PRE-CALCULUS 12 (Semester 2)**

**MA602S** Grade Level 12 Credits 4.000

*Pre-Calculus 11 & Pre-Calculus 12* These courses will be offered as a combination of the semester courses for the school year. Students who choose to complete Pre-Calculus 11 in the first semester will be expected to complete Pre-Calculus 12 during second semester. Completion of this course will prepare students for AP Calculus 12.

## **RECREATIONAL LEADERSHIP 12**

**PE670** Grade Level 12 Credits 4.000

*This course is designed for students interested in developing leadership skills, promoting recreational activity, and gaining practical, hands-on experience in event planning and project management. In this course, students will design, organize, implement, and facilitate various recreational activities in the school and community. Activities may include intramural games, elementary school visits, the Terry Fox Run, the Relay for Life, a Sun Run team, and/or any other area the students are passionate about. This course will require students to be available outside of class time for various class initiatives throughout the year and will involve service hours in the school and community. This course may also involve leadership field trip opportunities. Students enrolling in this course should be responsible, reliable, self-motivated, interested in recreational activities, and have good attitudes and behaviour.*

## **SOCIAL JUSTICE 12**

**SS680** Grade Level 12 Credits 4.000

*The course will examine and encourage understanding of the following concepts: equity and equality for minority groups, ethics, sexual orientation, diversity, human rights, oppression and genocide. The course will develop critical thinking skills for a range of social justice issues. These issues will be analyzed from an ethical perspective. Students will conduct a self-assessment of their own attitudes and behaviours relating to social justice including recognizing injustice, embracing diversity, developing empathy and taking action. Activities include class discussion, individual and group projects, research assignments, current events and field studies.*

## **STRATEGIES 12- ABORIGINAL STUDIES**

**AS650** Grade Level 12 Credits 4.000

*This course focuses on the oral and artistic expression of Aboriginal cultures. It also deals with Aboriginal traditions, issues and customs, both pre- and post-European settlement. Students in this course are encouraged to take a leadership role in the class, school and wider community. Aboriginal Studies is a graded elective.*

## **STRENGTH & CONDITIONING 12-**

**PE650** Grade Level 12 Credits 4.000

### *WEIGHT TRAINING*

*Building on knowledge, skills, concepts and activities of PHE 10, Fitness & Conditioning 11/12 focuses on developing a students personal fitness level through a variety of*

*activities both individual and group. Students will gain knowledge in the following areas: Human Anatomy and Physiology, Principles of Training, Healthy Living and Social Responsibility. This course will include community and school based field trips as well as school facilities that also include the weight room, gymnasium, field and surrounding community.*

**STUDIO ARTS 2D 12- DRAWING & PAINTING** **AR620** Grade Level 12 Credits 4.000

*Students will gain an enriching art experience as they journey further into the world of 2D arts. A variety of art mediums and techniques will be explored with the intention of developing a portfolio for post-secondary and/or exhibiting publicly. Every student will get their own visual journal (sketchbook) for practice and play. Students will be inspired by other artists, artworks, art contests and the world around us.*

**STUDIO ARTS 3D 12- CERAMICS & SCULPTING** **AR630** Grade Level 12 Credits 4.000

*COURSE CONTENT-This course continues to build skills, a knowledge base and context relating to ceramics and sculpture. Individual programs that explore personal image development are encouraged. The basic course explores the world of 3D design and sculpture through paper mache, cardboard, found object construction and small clay projects. Enhanced projects include the use of glass and metal and include glass bead making, stained glass, glass fusing, mosaics and larger clay projects.*

**THEATRE COMPANY 12** **TH630** Grade Level 12 Credits 4.000

*This course is an opportunity to be part of a cast of a scripted full length play. The creation and performance of a theatre production requires collaborative efforts of the entire company. This course is offered outside the timetable 2 days a week after school with the time commitment increasing closer to show date. Students are required to have a mature, committed and professional attitude towards the creative and rehearsal process and performance. By doing so they learn acting and personal skills necessary to perform within a Company. These skills include teamwork, vocal techniques, movement such as blocking, tableau and dance, character and improvisation.*

**WOODWORK 12** **IE610** Grade Level 12 Credits 4.000

*This course is for anyone, of any skill level. Beginners will get instruction on all machines and processes in the shop. Experienced students will design and produce higher level projects with more advanced woodworking concepts and processes. Depending on experience and skill level students will have choices for projects. Higher level projects have included a grandfather clock, complex and stunning dining room tables, 3D Router-produces signs and headboards, and larger cabinet projects. Please visit [dsstech.ca](http://dsstech.ca)!*

**WORK EXPERIENCE 12A** **WE640** Grade Level 12 Credits 4.000

*Students gain experience in the career field of their choice through a combination of employability skills training and 90 plus hours of work experience. Starting in grade 11 or 12 they develop their employability skills and are then placed with local employers in un-paid positions that align with their interests, passions, and future career goals. The community becomes the classroom where students gain experience at the workplace and will be better prepared to embrace or revise their career goals. Through employer assessment, students receive valuable real world feedback about their employability skills and technical skills. Registration is required, contact your school career staff or counselor for further details. Additional credit can be earned for Work*

*Experience 12B by continuing on for a second 90 hours along with the needed curriculum.*

**WORK EXPERIENCE 12A APPRENTICESHIP**

**AP600A** Grade Level 12 Credits 4.000

*'Youth Work in Trades' offers students aged 15 to school age 19 an opportunity to begin their apprenticeship while still in school. It is the beginning of training on the job which is typically 80% of becoming a journeyperson (classroom training is the other 20%). Students must be hired (paid) and working under the direction of a Journey Person. As well, their employer must agree to sponsor them with the ITA through Delta District as a Youth Apprentice. Up to four grade 11/12 courses (11a, 11b 12a, 12b) and a \$1000 award are possible. This is a great start or continuation to Youth Train in Trades as well. Work Experience 12 can also be used as a starting point. Advantages of Work in Trades include: four credits for each 120 hours of paid employment (up to a maximum of 16 credits for 480 hours), registration with the Industry Training Authority, potential for \$1000 award upon completion, earn hours towards your trade with the ITA, and learn in a 'real world' situation.*

**WORK EXPERIENCE 12B APPRENTICESHIP**

**AP600B** Grade Level 12 Credits 4.000

*'Youth Work in Trades' offers students aged 15 to school age 19 an opportunity to begin their apprenticeship while still in school. It is the beginning of training on the job which is typically 80% of becoming a journeyperson (classroom training is the other 20%). Students must be hired (paid) and working under the direction of a Journey Person. As well, their employer must agree to sponsor them with the ITA through Delta District as a Youth Apprentice. Up to four grade 11/12 courses (11a, 11b 12a, 12b) and a \$1000 award are possible. This is a great start or continuation to Youth Train in Trades as well. Work Experience 12 can also be used as a starting point. Advantages of Work in Trades include: four credits for each 120 hours of paid employment (up to a maximum of 16 credits for 480 hours), registration with the Industry Training Authority, potential for \$1000 award upon completion, earn hours towards your trade with the ITA, and learn in a 'real world' situation.*

**20th CENTURY WORLD HISTORY**

**SS640** Grade Level 12 Credits 4.000

*COURSE CONTENT-This is a thematic course covering the major events and significant figures in the world from 1917-1991. Students will study the post WWI world, The Great Depression, WWII, the Cold War and subsequent years up to the fall of Communism in Europe. The course will explore political, military, social and economic history, including how various forms of entertainment has affected change in society. The course will explore political, military, social and economic history, including how various forms of entertainment has affected change in society.*

*ASSIGNMENTS/ACTIVITIES - Tests in this course will include both written response and document-based questions.*